

the 'no leak' degree. In this way the patient can manipulate the mask to ensure correct fitting
as indicated by the appropriate message.

a27.
cont.
See the attached Appendix for the changes made to effect the above paragraph

IN THE CLAIMS:

Please cancel claim 1 without prejudice.

Please add the following new claim(s):

27. A method for determining a mask-fit test pressure to be applied to a wearer's mask by ventilatory assistance apparatus, wherein the mask-fit pressure is adaptively determined from prior use.

28. In a continuous positive airway pressure apparatus having an automatic titration mode that delivers a flow of pressurized breathable gas to a patient mask, a method for determining of a mask-fit pressure to be applied to a wearer's mask by the apparatus, said method comprising:

measuring by a pressure sensor the mask pressure used by a patient during a treatment session; and

determining a mask fit test pressure from the pressures used by the patient during the treatment session.

29. A method for determining a mask-fit test pressure to be applied to a wearer's mask by ventilatory assistance apparatus, the method comprising:

determining a percentile pressure of a previous ventilatory assistance session to be said test pressure.

30. The method of claim 29, wherein said percentile pressure is chosen from the range of the 75th-95th percentile pressure.

31. The method of claim 30 further comprising determining a base pressure to be said test pressure if there is no previous percentile pressure available.

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cont*

32. The method of claim 31, wherein said base pressure is in the range of 10-12 cm H₂O.

33. The method of claim 32, further comprising determining that a previous pressure is available if a pressure ventilatory assistance session occurred for greater than a predetermined time interval.

34. The method of claim 33, wherein said predetermined time interval is three hours.

35. A method for assessing correct fitting of a mask delivering ventilatory assistance, provided by ventilatory assistance apparatus, to a wearer of the mask, the method comprising:

determining a percentile pressure of a previous ventilatory assistance session to be applied as a test pressure;

determining leak flow from said mask at the test pressure; and

displaying or otherwise indicating a magnitude of the leak flow as an indication of correct mask fitting.

36. The method of claim 35, wherein said leak flow is quantized to represent a degree of leak.

37. The method of claim 36, further comprising:

comparing said leak flow against a threshold value representing zero degree of leak; and

determining that there is correct mask fitting if the threshold is not exceeded.

38. The method of claim 36, further comprising determining a base pressure to be applied as said test pressure if there is no previous percentile pressure available.

39. The method of claim 38, wherein said percentile pressure is chosen from the range of the 75th-95th percentile pressure.

40. The method of claim 39, wherein said base pressure is in the range of 10-12 cm H₂O.

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41. The method of claim 39, further comprising determining that a previous pressure is available if a pressure ventilatory assistance session occurred for greater than a predetermined time interval.

42. The method of claim 41, wherein said predetermined time interval is three hours.

43. A method for determining a mask-fit positive test pressure to be applied to a wearer's mask by ventilatory assistance apparatus, the method comprising:

determining a percentile pressure of a previous ventilatory assistance session to be said positive test pressure.

44. The method of claim 43, wherein said percentile pressure is chosen from the range of the 75th-95th percentile pressure.

45. The method of claim 43 comprising determining a base pressure to be said positive test pressure if there is no previous percentile pressure available.

46. The method of claim 45, wherein said base pressure is in the range of 10-12 cm H₂O.

47. The method of claim 43, further comprising determining that a previous pressure is available if a pressure ventilatory assistance session occurred for greater than a predetermined time interval.

48. The method of claim 47, wherein said predetermined time interval is three hours.

49. A method for assessing correct fitting of a mask delivering ventilatory assistance, provided by ventilatory assistance apparatus, to a wearer of the mask, the method comprising:

determining a percentile pressure of a previous ventilatory assistance session to be applied as a positive test pressure;

determining leak flow from said mask at the positive test pressure; and

displaying or otherwise indicating a magnitude of the leak flow as an indication of correct mask fitting.

50. The method of claim 49, wherein said leak flow is quantized to represent a degree of leak.

51. The method of claim 49, further comprising:
comparing said leak flow against a threshold value representing zero degree of leak; and
determining that there is correct mask fitting if the threshold is not exceeded.

52. The method of claim 49, further comprising determining a base pressure to be applied as said positive test pressure if there is no previous percentile pressure available.

53. The method of claim 52, wherein said percentile pressure is chosen from the range of the 75th-95th percentile pressure.

54. The method of claim 52, wherein said base pressure is in the range of 10-12 cm H₂O.

55. The method of claim 49, further comprising determining that a previous pressure is available if a pressure ventilatory assistance session occurred for greater than a predetermined time interval.